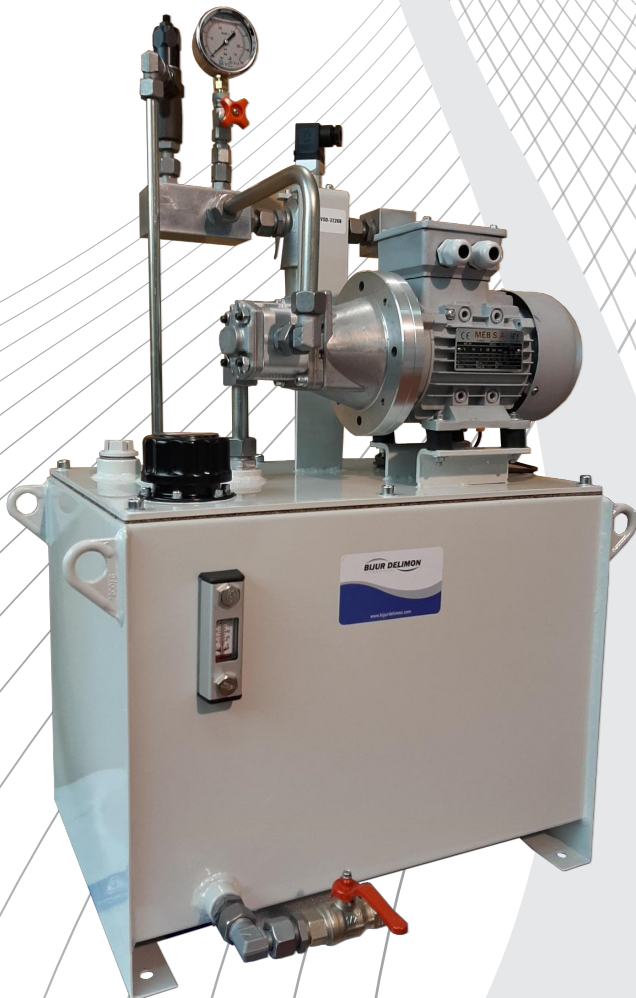




OIL CIRCULATING SYSTEMS



**CONFIGURABLE
STANDARD OCS**

A BRAND OF **BIJUR DELIMON**
INTERNATIONAL

**ROBUST
SYSTEMS
DESIGN**

**ENGINEERING
EXCELLENCE**

**MANUFACTURING
QUALITY**

**SERVICE
& SPARES**

CONFIGURABLE STANDARD OCS

Bijur Delimon International is a global supplier of Oil Circulating Systems and Equipment, designed for the optimum lubrication of bearings, gear trains and other processes requiring oil for lubrication and cooling.

- + A range of standard Multi-Purpose Oil Circulating units are manufactured to fill the need for a relatively simple, inexpensive, yet reliable system where a custom design is not required.
- + Reliability is a key to our success, achieved by utilizing proven design techniques, coupled with product quality and competitive pricing.



In providing the key functions of an Oil Circulating System, the system is built from the following primary equipment:

- **TANKS** – to allow settlement, de-aeration, and heating with the ability to condition and change the lubricant as appropriate.
- **PUMPS** – typically motor driven gear pumps to provide the correct flow and pressure to the application.
- **HEATERS & COOLERS** – to ensure the lubricant reaches the points of application at the required viscosity.
- **FILTRATION** – to maintain the system cleanliness at the required level.
- **INSTRUMENTATION** – monitoring for pressure, flow, filtration, temperature, and level.
- **ACCESSORIES** – controls and wiring, pressure relief.

SYSTEM DESIGN

One electric gear pump draws oil from a reservoir and supplies the oil via check valves through a single or dual basket type filter to the delivery connection.

Standard Units Comprised of:

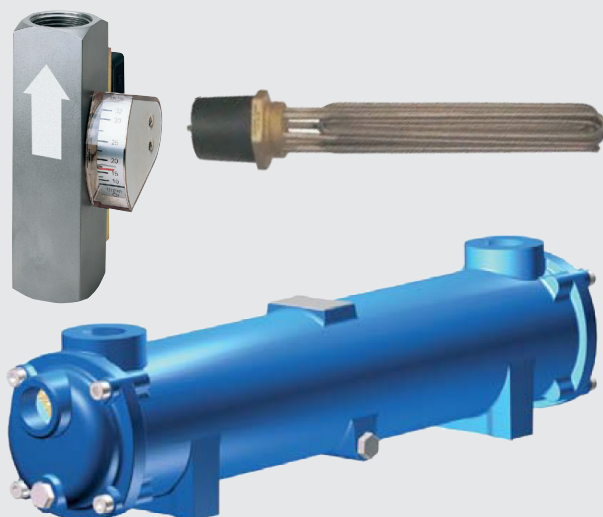
- **RESERVOIR:** Fabricated from mild steel plate, sandblasted, and painted one coat primer with one coat of Light Grey (RAL7035).
- **RESERVOIR COMPONENTS:** Return and drain connections; level gauge; thermometer; air breather filler and filter.
- **PUMP & MOTOR:** Positive displacement integral gear type aluminum pump; 1500 rpm motor suitable for 380/440 VAC, 3phase, 50/60Hz supply.¹
- **OIL FILTER:** 25 μ (nominal) stainless steel mesh element; high dirt load capacity; visual/electrical clogging indication; bypass valves.¹
- **PRESSURE RELIEF VALVE:** Self-operating relief; easily adjustable relief spring pressure.
- **PRESSURE INDICATION:** 63mm gauge; 0-16 bar pressure.
- **CHECK VALVE, PIPE & FITTINGS:** Screwed, mild steel.
- **LEVEL SWITCH:** 2 position digital level switch.

¹ Standard design for oil viscosity up to ISO VG 220 - for higher viscosities, please contact our technical department.



OPTIONAL EXTRAS

- **HEATER:** 1kW, 3phase, 0.9W/cm² watts density; Thermostat.
- **PRESSURE TRANSMITTER:** 4-20mA analogue signal.
- **OIL COOLER:** Shell & Tube type; cooling oil to 100°F from 122°F with water at 68°F (water flow = oil flow x2).
- **ELECTRICAL:** Aluminum junction box.
- **FLOW SWITCH:** Viscosity compensating float type; SPDT contacts.
- **TANK TEMPERATURE:** PT100 RTD and Thermowell



CONFIGURABLE STANDARD OCS

Output (lpm)	Reservoir (liters)	Length (mm)	Width (mm)	Height (mm)	No. of Pumps	Filter	Connection	Return	Power (kW)	Part Number	
5	50	515	345	405	1	Simplex	1/2" NPT thread	1" NPT thread	0.37	OF05010*	
						Duplex				OF05020*	
	100	760	500	505		Simplex				OF10010*	
						Duplex				OF10020*	
10	100	760	500	505	1	Simplex	1/2" NPT thread	1 1/4" NPT thread	0.55	OF10011*	
						Duplex				OF10021*	
	150	760	570	645		Simplex				OF15010*	
						Duplex				OF15020*	
15	150	760	570	645	1	Simplex	1/2" NPT thread	1 1/2" NPT thread	0.75	OF15011*	
						Duplex				OF15021*	
	350	1260	670	680		Simplex				OF35010*	
						Duplex				OF35020*	
20	250	1010	720	670	1	Simplex	3/4" NPT thread	1 1/2" NPT thread	1.1	OF25011*	
						Duplex				OF25021*	
	400	1250	745	720		Simplex				OF40010*	
						Duplex				OF40020*	
30	350	1260	670	680	1	Simplex	3/4" NPT thread	2" NPT thread	1.5	OF35011*	
						Duplex				OF35021*	
40	400	1250	745	720	1	Simplex	1" NPT thread	2" NPT thread	2.2	OF40011*	
						Duplex				OF40021*	
50	600	1360	860	800	1	Simplex	1" NPT thread	2" NPT thread	2.2	OF60010*	
						Duplex				OF60020*	

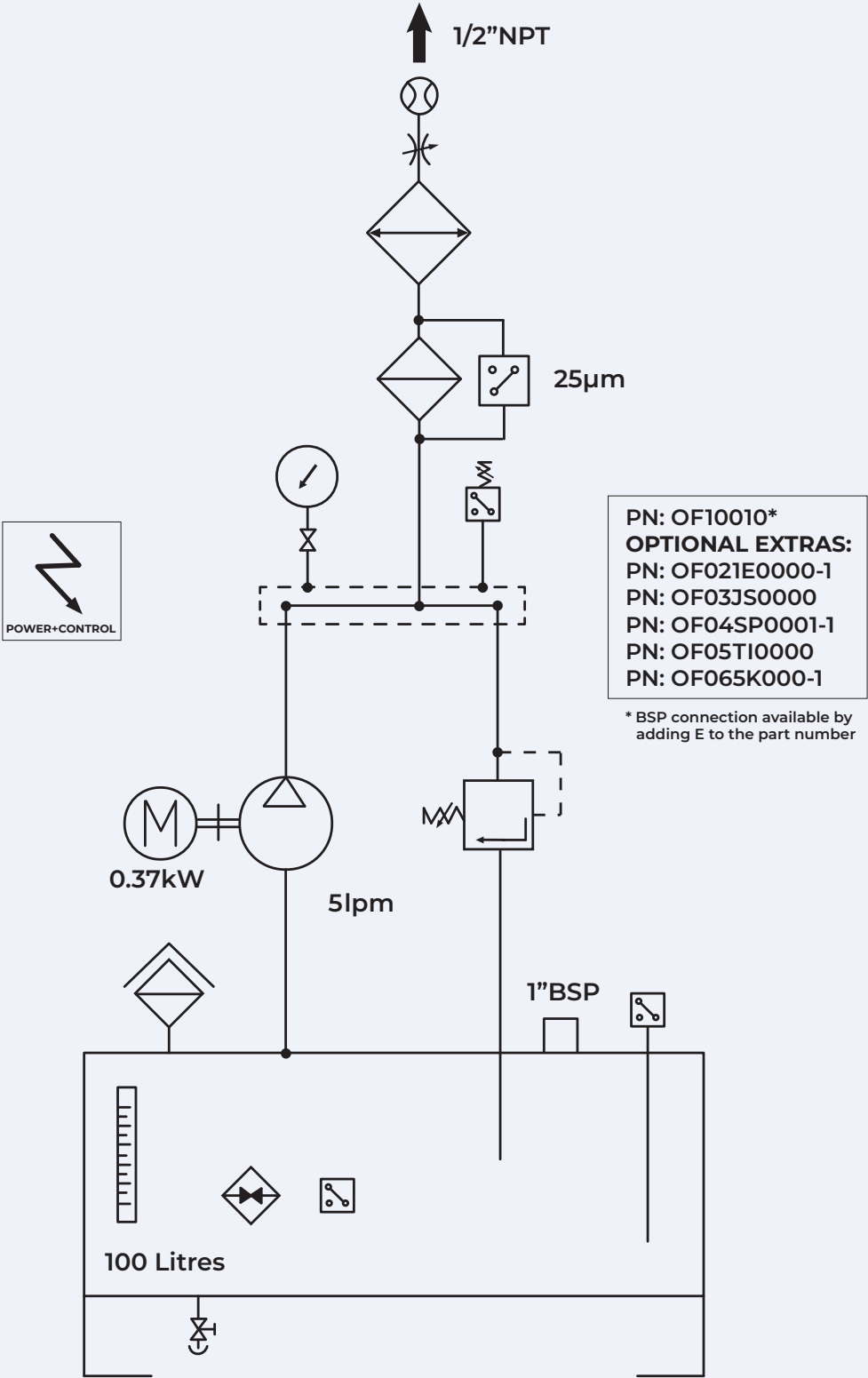
* BSP connection available by adding E to the part number

Option	Removable 1kW Heater + PT100 ¹	OF021E0000-1
Option	Wired Aluminum Junction Box	OF03JS0000
Option	Heat Exchanger + Thermostat 5LPM	OF04SP0000-1
Option	Heat Exchanger + Thermostat 5-40LPM	OF04SP0001-1
Option	Heat Exchanger + Thermostat 50LPM	OF04SP0002-1
Option	4-20 mA Pressure Transmitter	OF05TI0000
Option	Flow Meter + Control Needle Valve ¹	OF065K000-1
Option	Drip Pan (Available reservoir sizes: 50, 100, 150, 250, 350, 400, & 600 liters)	OF99CM (0+ tank volume)

¹ Max quantity of 2 in the standard design. If more heaters or flow meters are required, please contact our technical department.



SCHEME EXAMPLE



TECHNICAL INFORMATION

MAIN DATA

Type of Oil: Mineral Oils

Fluid Temperature: Up to 70°C

Design Pressure: 12 bar

Standard Viscosity: Up to ISO VG 220

PUMP

Fluid kinematic viscosity ranges are the following:

Max. Viscosity: 6 - 500 cSt

Recommended Viscosity: 10 - 100 cSt

Max Viscosity at Startup: <2000 cSt

Continuous Max. Pressure: 170 bar

Intermittent Max. Pressure: 185 bar

Peak Max. Pressure: 200 bar

* Stand-by Pump: Consult Bijur Delimon

* Different Retention Times: Consult Bijur Delimon
(due to long distances with low Flow rates for example)

MOTOR

Voltage: 230-260/400-460 VAC, 50/60Hz

Speed: 1500 rpm

Design: IMB3/B5

Electrical Protection: IP55

ELECTRONIC LEVEL SENSOR

Operating Voltage: 18...30 VDC

Number of Outputs: 2

Output Signal: Switching Signal

Electrical Design: PNP/NPN

Output Function: Normally Open / Normally Closed

FILTER

Max. Working Pressure: 16 bar

Max. Δp: 0.4 bar

Simplex/Duplex Type

Stainless Steel Mesh

25 Micron Nominal Filtration

Bypass Valve Set to 2 bar

Visual + Electrical Clogging Indicator

RELIEF VALVE

Pressure Range: 5-80 bar

Max. Pressure: 350 bar

HEATER

Voltage: 230/400 VAC, 1Kw

Watts Density: 0.9W/cm²

IP-66 Hermetic Aluminium Terminal Box

M25 Cable Gland

M6 Plated Steel Welded Terminal

Rubber Gasket

2" Threaded Cap

Removable Without Draining the Reservoir

0-120°C Adjustable Thermostat
PT100 to Control Heater (Option)

PRESSURE TRANSMITTER

Operating Voltage: 8.5...36 VDC

Measuring Range: 0-25 bar

Number of Outputs: 1

Output Signal: Analogue 4...20 mA

HEAT EXCHANGER

Standard: Shell and Tube

Water Requirements: Oil Flow Rate x 2

Oil VG: 220 cSt

Water Temperature: 20°C

Oil ΔT: >12°C

Heat Losses: To Be Included with the Quotation

FLOW METER

Standard: Viscosity Compensated

Max. Pressure: 250 bar

Contact Type: 1 Change Over Contact

Operating Voltage: Max 240 VAC

Side Display Included

Mounting Position: From Bottom to the Top

* Other Mounting Position: Consult Bijur Delimon

* Measuring Ranges: To Be Included with the Quotation

Innovators of engineered lubrication technology since 1872

Bijur Delimon International has ISO 9001:2015 and ISO 14001:2015 quality certified manufacturing facilities around the world, so your centralized lubrication system meets the highest industry quality standards. It's all part of our commitment to quality and customer service.

OUR INDUSTRY LEADING FAMILY OF BRANDS



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